

**MODEL:** PJ-034-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 0.65mm center pin
- 1.0 A rating
- right angle orientation
- surface mount (SMT)
- internal switch

**SPECIFICATIONS**

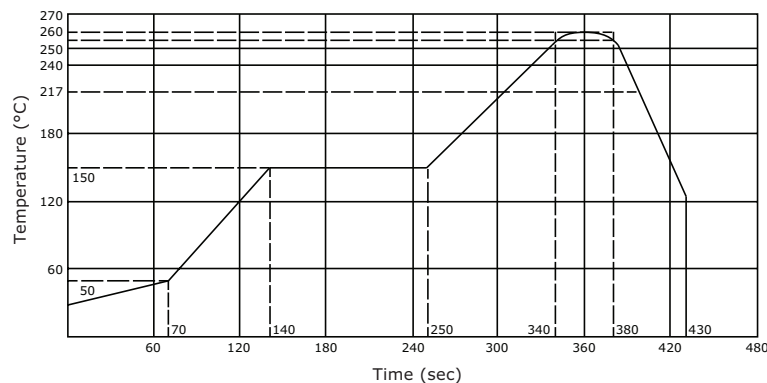
| parameter                       | conditions/description                                                   | min | typ   | max      | units    |
|---------------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated input voltage             |                                                                          |     | 24    |          | Vdc      |
| rated input current             |                                                                          |     |       | 1.0      | A        |
| contact resistance <sup>1</sup> | between terminal and mating plug<br>between terminal in a closed circuit |     |       | 50<br>30 | mΩ<br>mΩ |
| insulation resistance           | at 500 Vdc                                                               | 100 |       |          | MΩ       |
| voltage withstand               | for 1 minute                                                             |     |       | 500      | Vac      |
| insertion/withdrawal force      |                                                                          | 0.3 |       | 3        | kg       |
| operating temperature           |                                                                          | -25 |       | 85       | °C       |
| life                            | at a rate of 24 cycles/minute                                            |     | 5,000 |          | cycles   |
| flammability rating             | UL94V-0                                                                  |     |       |          |          |
| RoHS                            | 2011/65/EU                                                               |     |       |          |          |

Note: 1. When measured at a current of less than 100 mA/1 kHz  
 2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

**SOLDERABILITY**

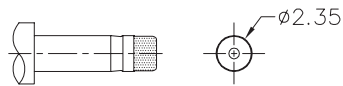
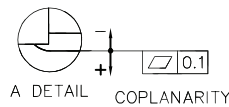
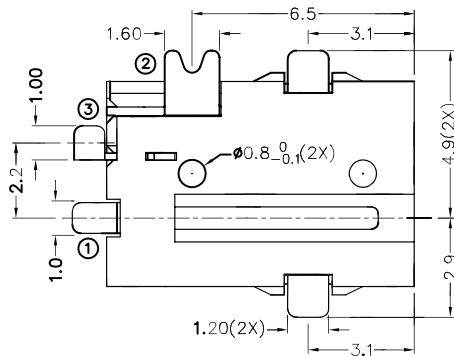
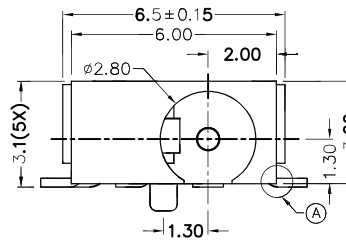
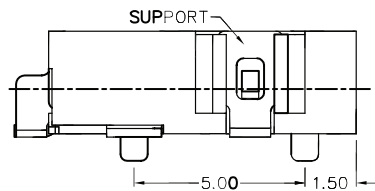
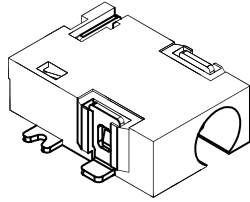
| parameter                      | conditions/description                                                                                   | min | typ | max | units |
|--------------------------------|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%                                                                                |     |     | 40  | °C    |
| reflow soldering <sup>3</sup>  | see reflow profile                                                                                       | 255 | 260 | 265 | °C    |
| drying conditions <sup>4</sup> | parts in reel: bake at 40°C ±5°C for 72 hours<br>parts removed from reel: bake at 40°C ±5°C for 10 hours |     |     |     |       |

Note: 3. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
 4. When exceeding floor life by >72 hours.



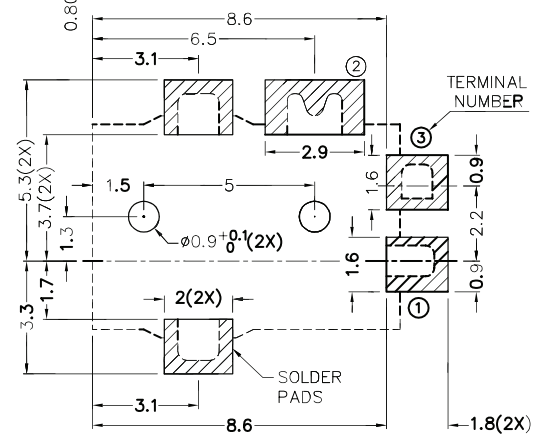
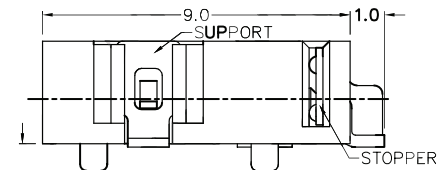
## MECHANICAL DRAWING

units: mm  
tolerance:  
X.X  $\pm 0.2$ mm  
X.XX  $\pm 0.1$ mm  
X.XXX  $\pm 0.05$ mm



**MATING PLUG**  
Jack Insertion Depth: 7.0mm

|            | MATERIAL           | PLATING    |
|------------|--------------------|------------|
| center pin | brass              | silver     |
| terminal 1 | brass              | silver     |
| terminal 2 | phosphor bronze    | gold flash |
| terminal 3 | brass              | gold flash |
| supports   | brass              | silver     |
| stopper    | brass              | silver     |
| plastic    | PA6T or equivalent |            |



**RECOMMENDED PCB LAYOUT**  
TOLERANCE:  $\pm 0.05$   
(TOP VIEW)

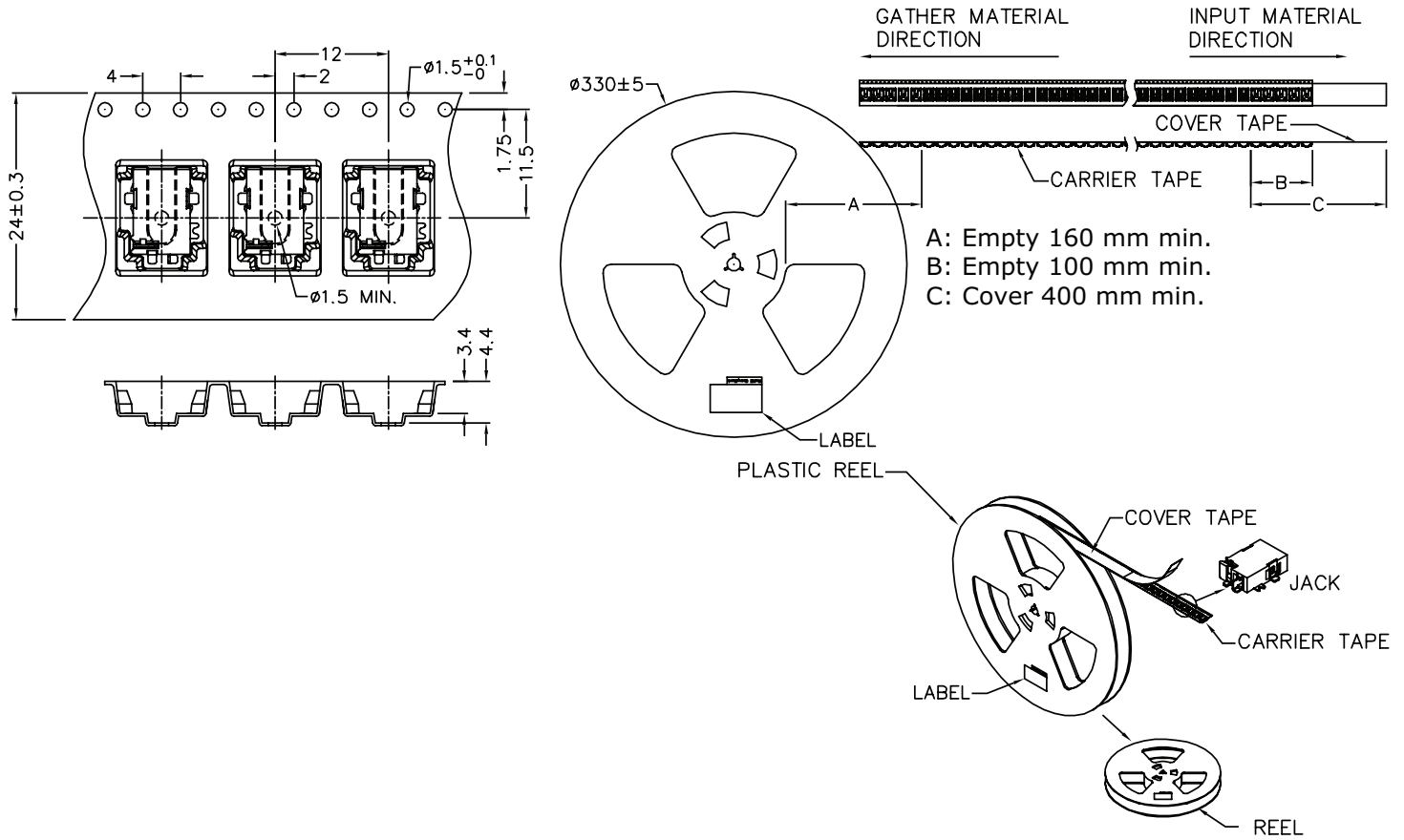
|            |            |
|------------|------------|
| SCHEMATIC  |            |
| Model      | PJ-034-SMT |
| Center Pin | Ø0.65 mm   |

## PACKAGING

units: mm

Reel Size: Ø330 mm

Reel QTY: 1,000 pcs per reel



## REVISION HISTORY

| rev. | description                                                                     | date       |
|------|---------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                 | 02/02/2007 |
| 1.01 | added TR package option and jack insertion depth                                | 11/07/2012 |
| 1.02 | applied new spec template                                                       | 08/28/2013 |
| 1.03 | terminal 2 material changed to phosphor bronze, appearance of supports modified | 05/13/2015 |
| 1.04 | increased voltage rating                                                        | 05/18/2016 |
| 1.05 | added storage and drying conditions, and tape and reel packaging details        | 07/25/2017 |

The revision history provided is for informational purposes only and is believed to be accurate.



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